



09/244,195

APPENDIX 1: APPEALED CLAIMS 6, 8-13

1 §. A method of initiating an immune response specific for transactivating protein or reverse transcriptase of human immunodeficiency virus type 1 (HIV-1) in an animal, said method comprises the step of:

administering to said animal an attenuated bacterial host comprising a recombinant plasmid that carries a fusion protein construct, wherein said fusion protein construct comprises a gene required for surface exposure and a gene encoding said transactivating protein or reverse transcriptase of HIV-1, wherein said bacterial host can induce both cellular and humoral anti-HIV-1 immune responses in said animal.

2 §. The method of claim 1, wherein said immune response comprises a mucosal IgA response and a helper T cell response.

3 §. The method of claim 1, wherein said attenuated bacterial host is administered orally.

4 §. The method of claim 1, wherein said attenuated bacterial host is administered in an oral dose of from about 10^{12} to about 10^{14} CFU.

5 §. The method of claim 1, wherein said gene required for surface exposure encodes *E. coli* lipoprotein signal sequence linked to a portion of the *E. coli* outer membrane protein ompA.

6 §. The method of claim 1, wherein said attenuated bacterial host is a strain of *Salmonella typhimurium*, SL3261.